

UNITED STATES PATENT AND TRADEMARK OFFICE



APPLICATION NO.	FILING I	DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/087,906	03/05/2002		Wolfgang Eberle	566/39038	6665
75	90	04/23/2003			
Barnes & Thornburg			EXAMINER		
Ste. 900 750 17th Street N.W. Washington, DC 20006			KRAMER, DEVON C		
wasnington, Do	20000			ART UNIT	PAPER NUMBER

3683 DATE MAILED: 04/23/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 07-01)

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	Applicati n No.	EBERLE ET AL.	
•	10/087,906	Art Unit	7()
Office Action Summary	Examiner	3683	
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2a) This action is FINAL .	Issuance except for formal m	atters, prosecution as to	
3) Since this application is in condition of the closed in accordance with the practice un	nder Ex parte Quayle, 1935 C	S.D. 11, 453 O.G. 211	
Disposition of Claims	etion		
Disposition of Claims 4) Claim(s) 1-16 is/are pending in the application of the above claim(s) is/are with the application of the above claim(s) is/are with the application of the above claim(s).	hdrawn from consideration.		
40) Of the above claim(s)			
SIT Claim(s) is/are allowed.			
Claim(s) 1-16 is/are rejected.			
6) Claim(s) is/are objected to.	t ation requirement		
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction	and/or election requirement		
Application Papers 9) The specification is objected to by the Example 10) The drawing(s) filed on is/are: a)(xaminer.	by the Examiner.	
9) The specification is/are: a)	accepted or b) objected to	ahevance. See 37 CFR 1.	85(a).
9) The specification is objected to by 10) The drawing(s) filed on is/are: a)[Applicant may not request that any object 11) The proposed drawing correction filed of the proposed drawing are required.	ion to the drawing(s) be new in	In disapproved by the E	xaminer.
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11) The proposed drawing correction filed of	ired in reply to this Office action	•	
If approved, corrected drawings are 1945 12) The oath or declaration is objected to b	ov the Examiner.		
- the or declaration is objected to	*		
Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim f	for foreign priority under 35 U	I.S.C. § 119(a)-(a) or (1).	
Acknowledgment is made of a claim to	Of foreign but		
	documents have been received	ed in Application No	·
1. Section copies of the priority	documents have been recon-	e heen received in this I	National Stage
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15)LJ ACKITOTION 35	Δ۱Π	Interview Summary (PTO-41	3) Paper Notes 1
Attachment(s) 1) Notice of References Cited (PTO-892) 1) Notice of References Cited (PTO-892) 1) Reserved Septembly Patent Drawing Review	5)	Notice of Informal Palentine	MAN SHEW EYER
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DETAILED ACTION

Claim Objections

Claims 8, 14 and 16 are objected to because of the following informalities:

These claims state, "wherein for an unbraked,". This statement appears to be 1) missing a character. Appropriate correction is required.

Claim 14 line 4 recites, "consider sensors which supply signals do not pass the plausibility check." This sentence appears to be missing some wording.

Claim Rejections - 35 USC § 112

Claims 7-8, 10 and 1-16 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 8 and 16 state, "wherein for an unbraked". It is unclear what applicant is trying to claim when referring to an "unbraked". Is it an unbraked state, unbraked wheel,

Claims 7, 8 and 15-16 state that the a wheel speed sensor is initially selected, unbraked condition? and then the initially selected sensor having the another speed is finally selected. This is a contradiction because two sensors cannot be initially selected.

Claim 10 recites the limitation "at least two assigned wheel sensors" in line 3. There is insufficient antecedent basis for this limitation in the claim.

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that 4) form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or
- (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).
- Claims 1-2, 9-10 and 13 are rejected under 35 U.S.C. 102(b) as being 5) anticipated by Murayoma (JP 9193777).

In reference to claim 1, Murayoma provides a vehicle brake system comprising: at least two wheel speed sensors for each wheel or wheel group whose speed is to be measured; an electronic unit (10) for analyzing signals from the wheel sensors to instantaneously select the signals from one of the wheel sensors and determining a reference speed approximating the actual vehicle speed using the selected signals; and the electronic unit selecting the one wheel sensor as a function of the actual driving condition and at least one defined speed criterion.

In reference to claim 2, Murayoma provides brake system wherein there are only two wheel sensors provided for each wheel or wheel group whose speed is to be measured.

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In reference to claim 9, Murayoma provides a brake system wherein the electronic unit is an ABS/ASR control unit.

In reference to claim 10, Murayoma provides a brake system wherein for an ABS control intervention of the brake pressure control of a wheel or of a wheel group, a higher speed of the speeds supplied by the at least two assigned wheel sensors is used as a basis when a protection against an erroneous reduction of the brake force has the highest priority.

In reference to claim 13, Murayoma provides a brake system wherein for an ASR control intervention of the brake pressure control of a wheel or of a wheel group, a higher speed of the speeds supplied by the at least two assigned wheel sensors is used as a basis when a protection against a spinning of a wheel or of the wheel group has the highest priority.

Claims 1, 3 and 9 are rejected under 35 U.S.C. 102(b) as being anticipated by 6) Yoshino (5015042).

In reference to claim 1, Yoshino provides a vehicle brake system comprising: at least two wheel speed sensors for each wheel or wheel group whose speed is to be measured; an electronic unit (3) for analyzing signals from the wheel sensors to instantaneously select the signals from one of the wheel sensors and determining a

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reference speed approximating the actual vehicle speed using the selected signals; and the electronic unit selecting the one wheel sensor as a function of the actual driving condition and at least one defined speed criterion.

In reference to claim 3, Yoshino provides a system wherein for a braked vehicle, the wheel sensor which indicates the second-highest wheel speed is selected. (col 1 lines 50-55)

In reference to claim 9, Yoshino provides a brake system wherein the electronic unit is an ABS/ASR control unit.

7) Claims 1, 4, 5-9, 11-13, 15-16 are rejected under 35 U.S.C. 102(e) as being anticipated by Ohtsu (6246946).

In reference to claim 1, Ohtsu provides a vehicle brake system comprising: at least two wheel speed sensors for each wheel or wheel group whose speed is to be measured; an electronic unit (10) for analyzing signals from the wheel sensors to instantaneously select the signals from one of the wheel sensors and determining a reference speed approximating the actual vehicle speed using the selected signals; and the electronic unit selecting the one wheel sensor as a function of the actual driving condition and at least one defined speed criterion.

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In reference to claim 4, Ohtsu provides a brake system wherein for an unbraked vehicle, the wheel sensor which indicates the second-lowest wheel speed is selected. (col 8 lines 18-65)

In reference to claim 5, Ohtsu provides a brake system wherein one sensor for each wheel or group of wheels is initially selected using a first speed criterion (deceleration); and one of the initially selected sensors is finally selected, using a second speed criterion (i.e. highest sensor speed) sensor, and used to determine the reference speed.

In reference to claim 6, Ohtsu provides a brake system characterized in that the first and the second speed criterion are in each case an extreme-value criterion.

In reference to claims 7 and 15, Ohtsu provides a brake system wherein for a braked vehicle, the wheel sensor with the minimal wheel speed is initially selected from the respectively at least two wheel sensors; and the initially selected sensor having the maximal speed is finally selected. Ohtsu is capable of selecting either sensor based on certain criteria.

In reference to claims 8 and 16, Ohtsu provides a brake system wherein for an unbraked, the wheel sensor with the maximal wheel speed is initially selected from

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the respectively at least two wheel sensors; and the initially selected sensor having the minimal speed is finally selected. Ohtsu is capable of selecting either sensor based on certain criteria.

In reference to claim 9, Ohtsu provides a brake system wherein the electronic unit is an ABS/ASR control unit.

In reference to claim 11, Ohtsu provides a brake system wherein for an ABS control intervention of the brake pressure control of a wheel or of a wheel group, a lower speed of the speeds supplied by the at least two assigned wheel sensors is used as a basis when a protection against a locking of the wheel or of the wheel group has the highest priority.

In reference to claim 12, Ohtsu provides a brake system wherein for an ASR control intervention of the brake pressure control of a wheel or of a wheel group, a lower speed of the speeds supplied by the at least two assigned wheel sensors is used as a basis when a protection against an erroneous reduction of the traction force at the wheel or the wheel group has the highest priority.

In reference to claim 13, Ohtsu provides a brake system wherein for an ASR control intervention of the brake pressure control of a wheel or of a wheel group, a

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higher speed of the speeds supplied by the at least two assigned wheel sensors is used

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as a basis when a protection against a spinning of a wheel or of the wheel group has

the highest priority.

8) Claims 1 and 14 are rejected under 35 U.S.C. 102(b) as being anticipated by

Mueller (6112146).

In reference to claim 1, Mueller provides a vehicle brake system comprising: at

least two wheel speed sensors for each wheel or wheel group whose speed is to be

measured; an electronic unit (10) for analyzing signals from the wheel sensors to

instantaneously select the signals from one of the wheel sensors and determining a

reference speed approximating the actual vehicle speed using the selected signals; and

the electronic unit selecting the one wheel sensor as a function of the actual driving

condition and at least one defined speed criterion.

In reference to claim 14, provides a brake system including a plausibility

checking device which subjects the signals supplied by the wheel speed sensors to a

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plausibility check; and wherein the electronic unit does not consider sensors which supply signals do not pass the plausibility check. (col 7 lines 60-70)

Conclusion

- 9) The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Suzuki et al, Okubo (JP 06144187), Totsuka, Okubo (JP 104197263), Miyake et al, Yano et al, Washizu et al, Sawase, Naio et al, Ogino, Ohtsu et al, and Sano all provide brake systems with multiple speed sensors wherein a computer utilizes one sensor value for a control operation.
- 10) Any inquiry concerning this communication or earlier communications from the examiner should be directed to Devon C Kramer whose telephone number is 703-305-0839. The examiner can normally be reached on Mon-Fri 8-4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jack Lavinder can be reached on 703-308-3421. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-3519 for regular communications and 703-308-3519 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-303

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DK April 7, 2003

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